Performance Data Sheet

RKA5510YXD

General Information

Model	RKA5510YXD	**Refrigerant**	R-134a
Test Condition	ARI	**Performance Test Voltage**	230V ~ 60HZ
Return Gas	-6.7°C (20°F) SUPERHEAT	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	3080	3210					
	Watts	502	516					
	Amps	2.67	2.67					
	Lb/h	45.8	47.0					
-10	Btu/h	3420	3470	3510				
	Watts	525	545	566				
	Amps	2.78	2.81	2.84				
	Lb/h	49.7	50.5	51.2				
-5	Btu/h	3880	3840	3810	3780			
	Watts	544	569	596	623			
	Amps	2.87	2.93	2.99	3.05			
	Lb/h	55.1	55.4	55.7	56.0			
0	Btu/h	4440	4330	4220	4110	3990		
	Watts	560	591	622	655	689		
	Amps	2.95	3.03	3.12	3.21	3.31		
	Lb/h	61.8	61.7	61.7	61.5	61.3		
5	Btu/h	5110	4920	4740	4550	4360		
	Watts	572	608	646	684	723		
	Amps	3.01	3.12	3.23	3.35	3.48		
	Lb/h	69.8	69.4	68.9	68.4	67.8		
10	Btu/h	5870	5620	5360	5100	4830	4560	4280
	Watts	582	623	666	709	753	799	847
	Amps	3.05	3.19	3.33	3.48	3.63	3.79	3.96
	Lb/h	78.9	78.2	77.5	76.6	75.7	74.6	73.5
15	Btu/h	6740	6410	6090	5750	5410	5070	4720
	Watts	588	635	683	731	781	832	884
	Amps	3.08	3.24	3.41	3.59	3.77	3.95	4.15
	Lb/h	89.2	88.3	87.2	86.1	84.8	83.5	82.0
20	Btu/h	7700	7310	6910	6500	6090	5680	5250
	Watts	592	644	697	750	805	862	919
	Amps	3.09	3.28	3.48	3.68	3.89	4.10	4.32
	Lb/h	101	99.4	98.1	96.7	95.2	93.5	91.7

25	Btu/h	8750	8290	7820	7350	6870	6380	5890
	Watts	592	650	708	767	827	888	951
	Amps	3.08	3.30	3.53	3.76	3.99	4.23	4.48
	Lb/h	113	112	110	108	107	105	103
30	Btu/h	9880	9360	8830	8290	7740	7190	6620
	Watts	590	653	716	780	846	912	980
	Amps	3.06	3.31	3.56	3.82	4.08	4.35	4.62
	Lb/h	126	125	123	121	119	117	115
35	Btu/h	11100	10500	9920	9310	8700	8080	7450
	Watts	585	653	722	791	862	933	1010
	Amps	3.03	3.31	3.59	3.87	4.16	4.45	4.75
	Lb/h	140	139	137	135	133	130	128
40	Btu/h	12400	11700	11100	10400	9750	9070	8370
	Watts	578	651	725	800	875	952	1030
	Amps	2.98	3.29	3.59	3.90	4.22	4.54	4.87
	Lb/h	155	153	151	149	147	145	142
45	Btu/h	13800	13100	12300	11600	10900	10100	9380
	Watts	568	647	726	806	887	968	1050
	Amps	2.92	3.25	3.59	3.92	4.27	4.61	4.97
	Lb/h	171	169	167	165	162	160	157
50	Btu/h	15200	14400	13700	12900	12100	11300	10500
	Watts	556	640	725	810	895	982	1070
	Amps	2.84	3.20	3.57	3.93	4.30	4.68	5.06
	Lb/h	187	185	183	181	178	176	173
55	Btu/h	16700	15900	15100	14200	13400	12500	11600
	Watts	542	631	721	811	902	994	1090
	Amps	2.75	3.14	3.53	3.93	4.32	4.72	5.13
	Lb/h	204	202	200	198	195	193	190

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	5.268229E+03	3.308691E+02	2.360169E+00	6.161370E+01
C2	2.386668E+02	-6.018321E+00	-3.236251E-02	1.951517E+00
C3	-1.073730E+01	2.853201E+00	7.307139E-03	-4.943908E-03
C4	1.794962E+00	-6.469716E-02	-3.429127E-04	1.956508E-02
C5	-1.389740E+00	1.145460E-01	5.918576E-04	-4.942132E-03
C6	1.158393E-02	-1.936650E-03	-8.827952E-06	2.259106E-04
C7	-4.838289E-03	1.450384E-04	5.664095E-07	-9.497776E-05
C8	3.695584E-03	-1.161303E-05	2.201819E-08	7.265660E-05
C9	-6.797644E-04	-4.600813E-05	-2.260495E-07	-1.339417E-05
C10	-8.829364E-05	2.543271E-05	1.167257E-07	-1.718358E-06

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature